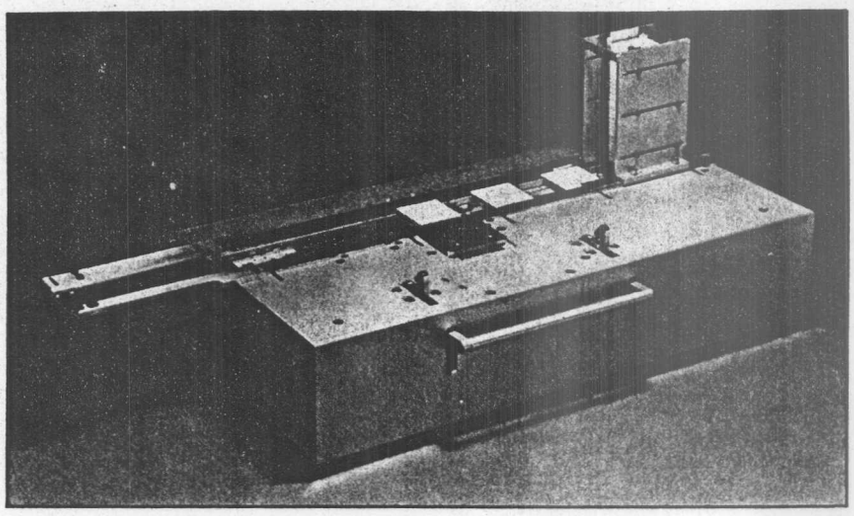
Feeder handles 3-by-3-in. substrates

A fully automatic feed system from DEK Printing Machines handles any size substrate, from 1.5 by 1.5 in. to 3 by 3 in. The model 4123/1202 mounts on a screen printer (4121/1202) and can shift from one substrate size to another in less than 30 min.

Under all working conditions, the feeder maintains registration to within ±0.001 in.—even for automatic process rates of up to 1200 cycles/h for 2-by-2-in. substrates and 900 cycles/h for 3-by-3-in. devices. An adjustable 5.5-in. stack magazine holds as many as 200 substrates 0.025 in. thick.

The feeder sends substrates from the magazine and then registers them under the print head.



After printing, it transfers them to the next stage in the printing and drying process.

DEK Printing Machines Ltd., 22 Albany Road, Granby Industrial Estate, Weymouth, Dorset DT4 9TH, England; (03057) 74431; Telex: 41122. **CIRCLE 502**

Multibus timers keep tabs on μCs

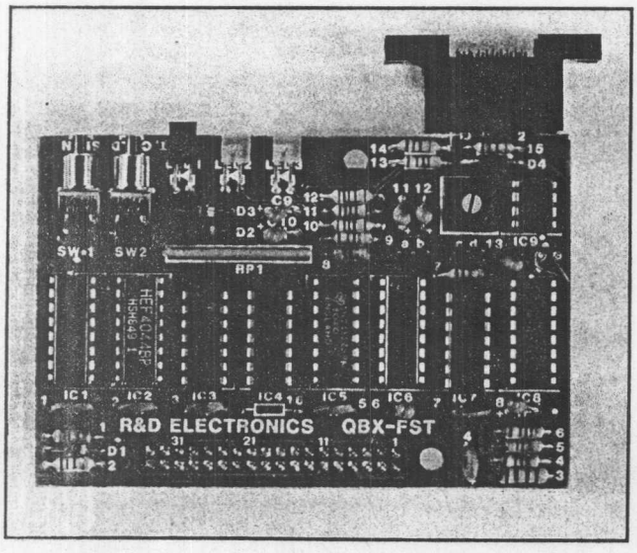
An important part of any microcomputer system is the fail-safe timer that is periodically restarted to keep tabs on the system's operation. The QBX-FST dual-timer board from T.G. Enterprises supplies that function for Multibus computer systems and has the ability to distinguish among an initial system turn-on, a so-called cold start, or a resumption after a failure (a warm start).

The board, which needs a 5-V supply, contains two fail-safe timers, one of which generates a reset signal whenever the other times out. As a further security measure, the two monostable timers are placed at different I/O locations, and each can be restarted only with a two-step operation.

Periodically, the computer restarts the timer to prevent it from generating a reset signal. If a system failure occurs, the timer board generates a reset pulse, restarting the microcomputer. Two LEDs on the board indicate whether the system was switched on for the first time or was restarted after a failure.

The QBX-FST can be set to activate external devices that must be switched on only after the computer system has stabilized. It can also be wired to turn those same devices off in the event of a failure.

The 2.85-by-3.7-by-0.81-in. board has an open-collector output that can sink a current of up to 200 mA at 50 V maximum.



T.G. Enterprises, PO Box 61903, Marshalltown 2107, South Africa; 834-1204; Telex: 83046 sa.

CIRCLE 503